

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A method for passively monitoring the servicing of a work vehicle during distribution of fluid products from a service vehicle to one or more fill ports of the work vehicle, comprising the steps of:

(a) providing a plurality of magnetically encoded fill port identifying data sources for identifying the fill ports of a work vehicle and the fluid products to be deposited therein;

(b) providing a run time sensor for generating a run time signal corresponding to the accumulated run time of a work vehicle engine;

(c) providing a reader capable of reading run time signals and fill port data, and for transmitting the information read;

(d) attaching the run time sensor to a work vehicle to be serviced;

(e) attaching one of said data sources to each fill port on [a] said work vehicle to be serviced, each said data source being encoded to contain fill port data relating to the identity of the vehicle, the identity of the fill port, and the type of fluid product to be dispensed to the fill port;

(f) making one of a plurality of means for distribution of particular types of fluid products ready for dispensation from a service vehicle;

(g) determining at the service vehicle the type of fluid product being made ready for distribution;

(h) engaging said reader to said run time sensor to obtain[ing]at the work vehicle the run time signal, and transmitting said run time signal to the service vehicle;

(i) engaging said reader to [a first set of fill port data from] a data source associated with a particular vehicle fill port selected for service to obtain a first set of fill port data, and transmitting said first set of fill port data to the service vehicle;

(j) receiving at the service vehicle the transmitted first set of fill port data and using same together with the known type of fluid product made ready for distribution to determine whether or not the selected fill port is about to be serviced with an appropriate fluid product, and generating an alarm signal commensurate therewith;

(k) distributing the fluid product to the selected fill port;

(l) obtaining at the service vehicle a second set of data associated with the distribution of the particular type of fluid product to the selected fill port; and

(m) logging at the service vehicle the run time signal, the alarm signal, the received first set of data and the second set of data.

2. (Currently amended) A method for passively monitoring the servicing of a work vehicle during distribution of fluid products thereto as recited in claim 1, wherein steps (i) through (m) are repeated until service of each fill port on the work vehicle is complete.

3. (Currently amended) A method for passively monitoring the servicing of a work vehicle during distribution of fluid products thereto as recited in claim 1, and further comprising: causing a horn to be actuated by said alarm signal to validate selection of each fill port as the intended port to be filled.

4. (Currently amended) A method for passively monitoring the servicing of a work vehicle during distribution of fluid products thereto as recited in claim 1, and further comprising: causing said alarm signal to sound an audible alarm warning of any improper distribution of [the] product.

5 - 8 (Canceled)

9. (Currently amended) A system for passively monitoring distribution of fluid products from a mobile service vehicle to fill ports on a work vehicle to be serviced, comprising:

(a) magnetically encoded and readable indicia [means affixed] for attachment proximate each fill port of a vehicle to be serviced [and positioned proximate to each fill port thereof], each said indicia [means] providing a first set of data uniquely associated with a particular fill port to be serviced;

(b) an engine run time meter for measuring the run time of the work vehicle engine and for generating a commensurate run time signal;

(c) a [magnetically responsive] reader [means] for reading said run time signal and said magnetically encoded indicia [means] and for transmitting the run time signal and the first set of data to the service vehicle;

(d) [means] a receiver on said service vehicle for receiving the transmitted run time signal and first set of data;

(e) apparatus on said service vehicle for generating a second set of data associated with a fluid product made ready for distribution to the selected fill port;

(f) logic on said service vehicle for comparing said first set of data to said second set of data and determining whether or not said first set of data identifies a particular fill port intended to be serviced, and for generating an alarm signal commensurate therewith;

(g) apparatus for generating a second set of data associated with a fluid product made ready for distribution to the selected fill port;] and

(h) logic for logging the run time signal , alarm signal, the first set of data and the second set of data.

10. (Canceled)

11. (Currently amended) A system for passively monitoring distribution of fluid products from a mobile service vehicle to fill ports on a vehicle to be serviced, as recited in claim 9, and further comprising a horn that is actuated by said signal to validate selection of the port as the intended port to be serviced.

12. (Currently amended) A system for passively monitoring distribution of fluid products from a mobile service vehicle to fill ports on a vehicle to be serviced, as recited in claim 9, wherein signal is used to sound an alarm warning of any improper distribution of the product.

13. (Previously amended) A system and apparatus for passively monitoring distribution of fluid products from distribution sources to fill ports on a vehicle, comprising:

a magnetically encoded port identifying means associated with each fill port on a vehicle to be serviced, said port identifying means containing port data relating to the identity of the vehicle, the identity of the fill port, and the type of material to be dispensed to the fill port;

magnetic reader means for reading said port data and transmitting same to a remote receiver associated with the distribution sources of said fluid products;

flow monitoring means associated with said remote receiver and the distribution sources and operative to generate flow data indicating a particular distribution source, the

type of fluid to be dispensed from said particular distribution source, and the volume of fluid actually dispensed from said particular distribution source in servicing a fill port;

means associated with said flow monitoring means for comparing said port data to said flow data and operative to generate an alarm in the event that any aspect of said port data is incompatible with any aspect of said flow data; and

means for producing a record of said port data, said flow data and the fact that an alarm was generated.

14. (Previously amended) An apparatus as recited in claim 13, wherein said port data includes information relating to the type of material to be distributed to a particular type of fill port.

15. (Previously amended) An apparatus as recited in claim 13, wherein the flow monitoring means includes a lookup table identifying the type of material to be put into a particular type of fill port.

16. (Previously amended) An apparatus as recited in claim 13, and further comprising means for determining the location of said vehicle to be serviced and the time of servicing, and for reporting same to said means for producing a record, whereby such location and time of servicing is included in said record.

17. (Previously amended) An apparatus as recited in claim 13, wherein said port identifying means includes an array of indicators organized so that when inspected, a set of code terms can be developed uniquely identifying a particular vehicle, a particular port and the type of material to be distributed to said particular fill port.

18. (Previously amended) An apparatus as recited in claim 13, wherein said reader means is further operative to generate operator data identifying the operator responsible for servicing said vehicle, and to transmit said operator data to said remote receiver.

19. (Previously amended) An apparatus as recited in claim 14, wherein said port identifying means includes an array of magnetic indicators respectively polarized and organized so that when inspected, a set of code terms [can be] are developed uniquely identifying said vehicle, the associated port and the type of material to be distributed to said associated port.

20. (Previously amended) An apparatus as recited in claim 14, wherein said magnetic reader means is further operative to generate operator data identifying the operator responsible for servicing said vehicle and for transmitting said operator data to said remote receiver.

21. (Previously amended) An apparatus as recited in claim 15, wherein said magnetic reader means is further operative to generate operator data identifying the operator responsible for servicing said vehicle and for transmitting said operator data to said remote receiver.

22. (Previously amended) A method of passively monitoring the servicing of a vehicle during distribution of fluid products to fill ports on the vehicle, comprising the steps of:

using an array of polarized magnets to uniquely identify[ing particular] each fill port[s] on a vehicle to be serviced [by providing identifying means], each said array being positioned proximate [each] one of said fill ports and containing port data relating to the identity of the vehicle and the identity of the corresponding port;

using a magnetic reader to read [reading said] the port data associated with a particular port and to transmit[ting same] the port data to a remote receiver;

monitoring the source of fluid product as it is distributed to a particular fill port and generating flow data [indicating] identifying the source, the type of fluid product to be dispensed from the source, and the volume of fluid product actually dispensed from the source to the particular fill port;

comparing said port data to said flow data and generating an alarm in the event that any aspect of said port data is incompatible with any aspect of said flow data; and

producing a record of said port data, said flow data and the fact that an alarm was generated.

23. (Previously amended) A method as recited in claim 22, wherein the [identifying means] array proximate each said fill port further contains port data relating to the type of fluid product to be distributed to the port.

24. (Previously amended) A method as recited in claim 22, wherein monitoring the source of each fluid product further comprises accessing a lookup table identifying the type of fluid product to be put into a particular fill port.

25. (Previously amended) A method as recited in claim 22, and further comprising the steps of determining the location of said vehicle to be serviced and the time of servicing, and reporting same for inclusion in said record.

26.(Previously amended) A method as recited in claim 22, and further comprising the steps of generating operator data identifying the operator responsible for servicing said vehicle, and transmitting said operator data to said remote receiver.